RAW SEQUENCE LISTING
PATENT APPLICATION: **US/10/763,398**

Input Set : **D:\443c1.app.txt**
Output Set: **N:\CRF4\08032004\J763398.raw**

```
 4 <110> APPLICANT: Anderson, Christen M.
 5         Carroll, Amy Karen
 8 <120> TITLE OF INVENTION: PRODUCTION OF ADENINE NUCLEOTIDE
 9         TRANSLOCATOR (ANT), NOVEL ANT LIGANDS
10         AND SCREENING ASSAYS THEREFOR
12 <130> FILE REFERENCE: 660088.443C1
14 <140> CURRENT APPLICATION NUMBER: US 10/763,398
15 <141> CURRENT FILING DATE: 2004-01-23
17 <150> PRIOR APPLICATION NUMBER: 09/569,327
18 <151> PRIOR FILING DATE: 2000-05-11
20 <150> PRIOR APPLICATION NUMBER: PCT/US99/25883
21 <151> PRIOR FILING DATE: 1999-11-03
23 <150> PRIOR APPLICATION NUMBER: 09/393,441
24 <151> PRIOR FILING DATE: 1999-09-08
26 <150> PRIOR APPLICATION NUMBER: 09/185,904
27 <151> PRIOR FILING DATE: 1998-11-03
29 <160> NUMBER OF SEQ ID NOS: 20
31 <170> SOFTWARE: FastSEQ for Windows Version 4.0
33 <210> SEQ ID NO: 1
34 <211> LENGTH: 894
35 <212> TYPE: DNA
36 <213> ORGANISM: Homo sapiens
38 <400> SEQUENCE: 1
39 atgggtgatc acgcttggag cttcctaaag gacttcctgg ccggggcggt cgccgctgcc 60
40 gtctccaaga ccgcggtcgc ccccatcgag agggtcaaac tgctgctgca ggtccagcat 120
41 gccagcaaac agatcagtgc tgagaagcag tacaaaggga tcattgattg tgtggtgaga 180
42 atccctaagg agcagggctt cctctccttc tggaggggta acctggccaa cgtgatccgt 240
43 tacttcccca cccaagctct caacttcgcc ttcaaggaca agtacaagca gctcttctta 300
44 gggggtgtgg atcggcataa gcagttctgg cgctactttg ctggtaacct ggcgtccggt 360
45 ggggccgctg gggccacctc cctttgcttt gtctacccgc tggactttgc taggaccagg 420
46 ttggctgctg atgtgggcag gcgcgcccag cgtgagttcc atggtctggg cgactgtatc 480
47 atcaagatct tcaagtctga tggcctgagg gggctctacc agggtttcaa cgtctctgtc 540
48 caaggcatca ttatctatag agctgcctac ttcggagtct atgatactgc caaggggatg 600
49 ctgcctgacc ccaagaacgt gcacattttt gtgagctgga tgattgccca gagtgtgacg 660
50 gcagtcgcag ggctgctgtc ctaccccttt gacactgttc gtcgtagaat gatgatgcag 720
51 tccggccgga aaggggccga tattatgtac acggggacag ttgactgctg gaggaagatt 780
52 gcaaaagacg aaggagccaa ggccttcttc aaaggtgcct ggtccaatgt gctgagaggc 840
53 atgggcggtg cttttgtatt ggtgttgtat gatgagatca aaaaatatgt ctaa     894
55 <210> SEQ ID NO: 2
56 <211> LENGTH: 897
57 <212> TYPE: DNA
58 <213> ORGANISM: Homo sapiens
60 <400> SEQUENCE: 2
```

RAW SEQUENCE LISTING   DATE: 08/03/2004
PATENT APPLICATION: US/10/763,398   TIME: 14:31:53

Input Set : D:\443c1.app.txt
Output Set: N:\CRF4\08032004\J763398.raw

```
61 atgacagatg ccgctgtgtc cttcgccaag gacttcctgg caggtggagt ggccgcagcc 60
62 atctccaaga cggcggtagc gcccatcgag cgggtcaagc tgctgctgca ggtgcagcat 120
63 gccagcaagc agatcactgc agataagcaa tacaaaggca ttatagactg cgtggtccgt 180
64 attcccaagg agcaggaagt tctgtccttc tggcgcggta acctggccaa tgtcatcaga 240
65 tacttcccca cccaggctct taacttcgcc ttcaaagata aatacaagca gatcttcctg 300
66 ggtggtgtgg acaagagaac ccagttttgg ctctactttg cagggaatct ggcatcgggt 360
67 ggtgccgcag gggccacatc cctgtgtttt gtgtaccctc ttgattttgc ccgtacccgt 420
68 ctagcagctg atgtgggtaa agctggagct gaaagggaat tccgaggcct cggtgactgc 480
69 ctggttaaga tctacaaatc tgatgggatt aagggcctgt accaaggctt taacgtgtct 540
70 gtgcagggta ttatcatcta ccgagccgcc tacttcggta tctatgacac tgcaaaggga 600
71 atgcttccgg atcccaagaa cactcacatc gtcatcagct ggatgatcgc acagactgtc 660
72 actgctgttg ccgggttgac ttcctatcca tttgacactg ttcgccgccg catgatgatg 720
73 cagtcagggc gcaaaggaac tgacatcatg tacacaggca cgcttgactg ctggcggaag 780
74 attgctcgtg atgaaggagg caaagctttt ttcaagggtg catggtccaa tgttctcaga 840
75 ggcatgggtg gtgcttttgt gcttgtcttg tatgatgaaa tcaagaagta cacataa    897
77 <210> SEQ ID NO: 3
78 <211> LENGTH: 897
79 <212> TYPE: DNA
80 <213> ORGANISM: Homo sapiens
82 <400> SEQUENCE: 3
83 atgacggaac aggccatctc cttcgccaaa gacttcttgg ccggaggcat cgccgccgcc 60
84 atctccaaga cggccgtggc tccgatcgag cgggtcaagc tgctgctgca ggtccagcac 120
85 gccagcaagc agatcgccgc cgacaagcag tacaagggca tcgtggactg cattgtccgc 180
86 atccccaagg agcagggcgt gctgtccttc tggaggggca accttgccaa cgtcattcgc 240
87 tacttcccca ctcaagccct caacttcgcc ttcaaggata agtacaagca gatcttcctg 300
88 gggggcgtgg acaagcacac gcagttctgg aggtactttg cgggcaacct ggcctccggc 360
89 ggtgcggccg gcgcgacctc cctctgcttc gtgtacccgc tggattttgc cagaacccgc 420
90 ctggcagcgg acgtgggaaa gtcaggcaca gagcgcgagt ccgaggcct gggagactgc 480
91 ctggtgaaga tcaccaagtc cgacggcatc cggggcctgt accagggctt cagtgtctcc 540
92 gtgcagggca tcatcatcta ccgggcggcc tacttcggcg tgtacgatac ggccaagggc 600
93 atgctccccg accccaagaa cacgcacatc gtggtgagct ggatgatcgc gcagaccgtg 660
94 acggccgtgg ccggcgtggt gtcctacccc ttcgacacgg tgcggcggcg catgatgatg 720
95 cagtccgggc gcaaaggagc tgacatcatg tacacgggca ccgtcgactg ttggaggaag 780
96 atcttcagag atgaggggggg caaggccttc ttcaagggtg cgtggtccaa cgtcctgcgg 840
97 ggcatggggg gcgccttcgt gctggtcctg tacgacgagc tcaagaaggt gatctaa    897
99 <210> SEQ ID NO: 4
100 <211> LENGTH: 297
101 <212> TYPE: PRT
102 <213> ORGANISM: Homo sapiens
104 <400> SEQUENCE: 4
105 Met Gly Asp His Ala Trp Ser Phe Leu Lys Asp Phe Leu Ala Gly Ala
106  1               5                  10                  15
107 Val Ala Ala Ala Val Ser Lys Thr Ala Val Ala Pro Ile Glu Arg Val
108             20                  25                  30
109 Lys Leu Leu Leu Gln Val Gln His Ala Ser Lys Gln Ile Ser Ala Glu
110         35                  40                  45
111 Lys Gln Tyr Lys Gly Ile Ile Asp Cys Val Val Arg Ile Pro Lys Glu
112     50                  55                  60
113 Gln Gly Phe Leu Ser Phe Trp Arg Gly Asn Leu Ala Asn Val Ile Arg
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/763,398

DATE: 08/03/2004
TIME: 14:31:53

Input Set : D:\443c1.app.txt
Output Set: N:\CRF4\08032004\J763398.raw

```
114 65                       70                  75                      80
115 Tyr Phe Pro Thr Gln Ala Leu Asn Phe Ala Phe Lys Asp Lys Tyr Lys
116                      85                  90                      95
117 Gln Leu Phe Leu Gly Gly Val Asp Arg His Lys Gln Phe Trp Arg Tyr
118                     100                 105                     110
119 Phe Ala Gly Asn Leu Ala Ser Gly Gly Ala Ala Gly Ala Thr Ser Leu
120         115                 120                     125
121 Cys Phe Val Tyr Pro Leu Asp Phe Ala Arg Thr Arg Leu Ala Ala Asp
122         130                 135                     140
123 Val Gly Arg Arg Ala Gln Arg Glu Phe His Gly Leu Gly Asp Cys Ile
124 145                     150                 155                     160
125 Ile Lys Ile Phe Lys Ser Asp Gly Leu Arg Gly Leu Tyr Gln Gly Phe
126                     165                 170                     175
127 Asn Val Ser Val Gln Gly Ile Ile Ile Tyr Arg Ala Ala Tyr Phe Gly
128         180                 185                     190
129 Val Tyr Asp Thr Ala Lys Gly Met Leu Pro Asp Pro Lys Asn Val His
130         195                 200                     205
131 Ile Phe Val Ser Trp Met Ile Ala Gln Ser Val Thr Ala Val Ala Gly
132         210                 215                     220
133 Leu Leu Ser Tyr Pro Phe Asp Thr Val Arg Arg Arg Met Met Met Gln
134 225                     230                 235                     240
135 Ser Gly Arg Lys Gly Ala Asp Ile Met Tyr Thr Gly Thr Val Asp Cys
136         245                 250                     255
137 Trp Arg Lys Ile Ala Lys Asp Glu Gly Ala Lys Ala Phe Phe Lys Gly
138         260                 265                     270
139 Ala Trp Ser Asn Val Leu Arg Gly Met Gly Gly Ala Phe Val Leu Val
140         275                 280                     285
141 Leu Tyr Asp Glu Ile Lys Lys Tyr Val
142         290                 295
145 <210> SEQ ID NO: 5
146 <211> LENGTH: 298
147 <212> TYPE: PRT
148 <213> ORGANISM: Homo sapiens
150 <400> SEQUENCE: 5
151 Met Thr Asp Ala Ala Val Ser Phe Ala Lys Asp Phe Leu Ala Gly Gly
152 1                       5                   10                      15
153 Val Ala Ala Ala Ile Ser Lys Thr Ala Val Ala Pro Ile Glu Arg Val
154         20                  25                      30
155 Lys Leu Leu Leu Gln Val Gln His Ala Ser Lys Gln Ile Thr Ala Asp
156         35                  40                      45
157 Lys Gln Tyr Lys Gly Ile Ile Asp Cys Val Val Arg Ile Pro Lys Glu
158         50                  55                      60
159 Gln Glu Val Leu Ser Phe Trp Arg Gly Asn Leu Ala Asn Val Ile Arg
160 65                       70                  75                      80
161 Tyr Phe Pro Thr Gln Ala Leu Asn Phe Ala Phe Lys Asp Lys Tyr Lys
162                      85                  90                      95
163 Gln Ile Phe Leu Gly Gly Val Asp Lys Arg Thr Gln Phe Trp Leu Tyr
164                     100                 105                     110
165 Phe Ala Gly Asn Leu Ala Ser Gly Gly Ala Ala Gly Ala Thr Ser Leu
```

RAW SEQUENCE LISTING   DATE: 08/03/2004
PATENT APPLICATION: US/10/763,398   TIME: 14:31:53

Input Set : D:\443c1.app.txt
Output Set: N:\CRF4\08032004\J763398.raw

```
166           115                    120                    125
167 Cys Phe Val Tyr Pro Leu Asp Phe Ala Arg Thr Arg Leu Ala Ala Asp
168           130                    135                    140
169 Val Gly Lys Ala Gly Ala Glu Arg Glu Phe Arg Gly Leu Gly Asp Cys
170 145                    150                    155                    160
171 Leu Val Lys Ile Tyr Lys Ser Asp Gly Ile Lys Gly Leu Tyr Gln Gly
172                    165                    170                    175
173 Phe Asn Val Ser Val Gln Gly Ile Ile Ile Tyr Arg Ala Ala Tyr Phe
174                    180                    185                    190
175 Gly Ile Tyr Asp Thr Ala Lys Gly Met Leu Pro Asp Pro Lys Asn Thr
176           195                    200                    205
177 His Ile Val Ile Ser Trp Met Ile Ala Gln Thr Val Thr Ala Val Ala
178           210                    215                    220
179 Gly Leu Thr Ser Tyr Pro Phe Asp Thr Val Arg Arg Arg Met Met Met
180 225                    230                    235                    240
181 Gln Ser Gly Arg Lys Gly Thr Asp Ile Met Tyr Thr Gly Thr Leu Asp
182                    245                    250                    255
183 Cys Trp Arg Lys Ile Ala Arg Asp Glu Gly Gly Lys Ala Phe Phe Lys
184           260                    265                    270
185 Gly Ala Trp Ser Asn Val Leu Arg Gly Met Gly Gly Ala Phe Val Leu
186           275                    280                    285
187 Val Leu Tyr Asp Glu Ile Lys Lys Tyr Thr
188           290                    295
191 <210> SEQ ID NO: 6
192 <211> LENGTH: 298
193 <212> TYPE: PRT
194 <213> ORGANISM: Homo sapiens
196 <400> SEQUENCE: 6
197 Met Thr Glu Gln Ala Ile Ser Phe Ala Lys Asp Phe Leu Ala Gly Gly
198 1                    5                    10                    15
199 Ile Ala Ala Ala Ile Ser Lys Thr Ala Val Ala Pro Ile Glu Arg Val
200           20                    25                    30
201 Lys Leu Leu Leu Gln Val Gln His Ala Ser Lys Gln Ile Ala Ala Asp
202           35                    40                    45
203 Lys Gln Tyr Lys Gly Ile Val Asp Cys Ile Val Arg Ile Pro Lys Glu
204           50                    55                    60
205 Gln Gly Val Leu Ser Phe Trp Arg Gly Asn Leu Ala Asn Val Ile Arg
206 65                    70                    75                    80
207 Tyr Phe Pro Thr Gln Ala Leu Asn Phe Ala Phe Lys Asp Lys Tyr Lys
208           85                    90                    95
209 Gln Ile Phe Leu Gly Gly Val Asp Lys His Thr Gln Phe Trp Arg Tyr
210           100                    105                    110
211 Phe Ala Gly Asn Leu Ala Ser Gly Gly Ala Ala Gly Ala Thr Ser Leu
212           115                    120                    125
213 Cys Phe Val Tyr Pro Leu Asp Phe Ala Arg Thr Arg Leu Ala Ala Asp
214           130                    135                    140
215 Val Gly Lys Ser Gly Thr Glu Arg Glu Phe Arg Gly Leu Gly Asp Cys
216 145                    150                    155                    160
217 Leu Val Lys Ile Thr Lys Ser Asp Gly Ile Arg Gly Leu Tyr Gln Gly
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/763,398

DATE: 08/03/2004
TIME: 14:31:53

Input Set : **D:\443c1.app.txt**
Output Set: **N:\CRF4\08032004\J763398.raw**

```
218                   165                 170                  175
219 Phe Ser Val Ser Val Gln Gly Ile Ile Ile Tyr Arg Ala Ala Tyr Phe
220             180                 185                190
221 Gly Val Tyr Asp Thr Ala Lys Gly Met Leu Pro Asp Pro Lys Asn Thr
222         195                 200                 205
223 His Ile Val Val Ser Trp Met Ile Ala Gln Thr Val Thr Ala Val Ala
224     210                 215                 220
225 Gly Val Val Ser Tyr Pro Phe Asp Thr Val Arg Arg Arg Met Met Met
226 225                 230                 235                 240
227 Gln Ser Gly Arg Lys Gly Ala Asp Ile Met Tyr Thr Gly Thr Val Asp
228             245                 250                255
229 Cys Trp Arg Lys Ile Phe Arg Asp Glu Gly Gly Lys Ala Phe Phe Lys
230         260                 265                 270
231 Gly Ala Trp Ser Asn Val Leu Arg Gly Met Gly Gly Ala Phe Val Leu
232     275                 280                 285
233 Val Leu Tyr Asp Glu Leu Lys Lys Val Ile
234     290                 295
237 <210> SEQ ID NO: 7
238 <211> LENGTH: 43
239 <212> TYPE: DNA
240 <213> ORGANISM: Artificial Sequence
242 <220> FEATURE:
243 <223> OTHER INFORMATION: primer used for human ANT1 amplification
245 <400> SEQUENCE: 7
246 ttatatctcg agtatgggtg atcacgcttg gagcttccta aag                          43
248 <210> SEQ ID NO: 8
249 <211> LENGTH: 43
250 <212> TYPE: DNA
251 <213> ORGANISM: Artificial Sequence
253 <220> FEATURE:
254 <223> OTHER INFORMATION: Primer used for human ANT1 amplification
256 <400> SEQUENCE: 8
257 tatataggta ccttagacat atttttttgat ctcatcatac aac                         43
259 <210> SEQ ID NO: 9
260 <211> LENGTH: 43
261 <212> TYPE: DNA
262 <213> ORGANISM: Artificial Sequence
264 <220> FEATURE:
265 <223> OTHER INFORMATION: Primer used for human ANT2 amplification
267 <400> SEQUENCE: 9
268 ttatatctcg agtatgacag atgccgctgt gtccttcgcc aag                          43
270 <210> SEQ ID NO: 10
271 <211> LENGTH: 43
272 <212> TYPE: DNA
273 <213> ORGANISM: Artificial Sequence
275 <220> FEATURE:
276 <223> OTHER INFORMATION: Primer used for human ANT2 amplification
278 <400> SEQUENCE: 10
279 tatataggta ccttatgtgt acttcttgat ttcatcatac aag                         43
```

VERIFICATION SUMMARY
PATENT APPLICATION: **US/10/763,398**

DATE: 08/03/2004
TIME: 14:31:54

Input Set : **D:\443cl.app.txt**
Output Set: **N:\CRF4\08032004\J763398.raw**